

[Time:2.30 Hrs]

[Marks:75]

Please check whether you have got the right question paper.

- N.B:
1. All question are compulsory.
 2. Figures to the right indicate full marks.

Q.1 Attempt any four of the following: 20

- A What is Data Base Management System? Explain its advantages.
- B Explain Client Server Architecture with example.
- C What are different Mapping Cardinality in DBMS? Explain with an example.
- D Define the following:
 - a) Super Key b) Primary Key c) Composite Key
 - d) Foreign Key e) Alternate Key
- E Explain the steps for converting Entity Relationship (ER) to table
- F What are the different levels of abstraction in a Data Base Management System?

Q.2 Attempt any four of the following: 20

- A What is Normalization? Explain its different types.
- B Explain different data types used in DBMS with example.
- C What are Data Definition Language in DBMS? Explain with an example.
- D How to Alter and Rename Tables in DBMS?
- E What is Boyce Codd Normal Form (BCNF) in DBMS?
- F Write the syntax for following:
 - a) Conditional Select
 - b) Between (Range Test)
 - c) Order By Clause
 - d) Group By Operator

Q.3 Attempt any four of the following: 20

- A Explain the following Functions with example:
 - a) Concat b) Lower c) StrCmp d) Trim e) Mid
- B What are Joins in DBMS? Explain its different types.
- C What are SubQueries? Explain with an example.

- D Explain any five math functions in DBMS with example.
- E Write short note on Database Protection in DBMS.
- F Explain the role of Database Administrator.

Q.4 Attempt any three of the following:

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- A Explain different types of users in DBMS.
- B Explain DBMS Architecture with Example.
- C What are Union and Set Operation in DBMS? Give an example.
- D Explain how to Create Tables With Integrity Constraints
- E Write short note on Views with example.
- F Explain Grant and Revoke command with example.
